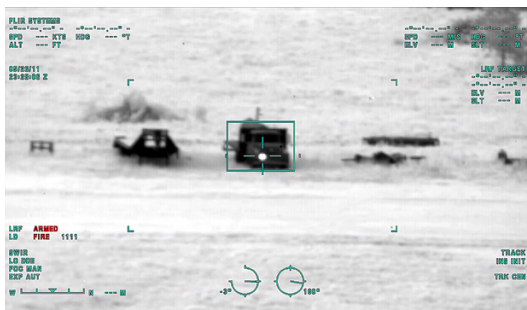


Extended Range
Extreme Performance



APPLICATIONS

- COIN/IW
- CAS
- FID
- ISR
- CSAR
- UAS/RPA
- FORCE PROTECTION

FLIR StarSAFIRE® 380-HLD

World's first Full High Definition Multi-Spectral Targeting System

The FLIR Star SAFIRE 380-HLD provides superior image stabilization, ultra long range imaging performance, true metadata embedded in the digital video, all with laser designation and rangefinder. The Star SAFIRE 380-HLD also provides the ability to operate continuously in all conditions—even while sitting on the tarmac with no airflow.

FEATURES

- Single LRU Full HD system
- Full 1080P HD-SDI digital performance
- Laser designation
- In-Flight boresight
- Embedded metadata
- SWIR band sensor
- Full color digital image blending
- Advanced image processing
- Enhanced standard definition video
- Optimized usability
- Multiple laser payloads
- Simplified common interface
- Fully hardened for military fixed-wing and helicopter operations

BENEFITS

- The only all-digital, Full HD system in a single LRU for ease of installation and integration; no junction boxes required
- High bandwidth HD-SDI (aka SMPTE-292M) video channels with symbology overlays comply with all government HD standards, providing full 1080P, 720P and other formats
- Combines long range ISR with precision targeting capabilities for real-time situation awareness & ability for tactical response
- Confirm alignment in under 30 seconds to ensure first round on target
- Sensor and geospatial data is fully embedded within the digital video stream – no need for dedicated ports or external boxes
- Provides LD spot imaging and extends imaging range performance in degraded visual conditions penetrating through smoke, haze or pollutants
- Combine important spectral information from IR & color or SWIR sensors for enhanced results
- Intelligent operation features including haze penetration and geo-tagging enhance PID range and reduce workload
- Analog video installations will benefit from the HD's high-resolution digital sensors and high-quality optics
- View, track, and mark ground locations using the fully-embedded IMU; follow moving targets with the robust, multi-mode Autotracker
- Covertly illuminate wide areas, point out distant targets to other forces, and determine target distance and location
- Provides standardized wiring for all HD turrets and external systems in this family; completely interchangeable and interoperable
- All-weather design is qualified to the most demanding requirements of MIL-STD-810 and MIL-STD-461

StarSAFIRE® 380-HLD

Specifications

THERMAL IMAGER	
Sensor type	1280 x 720 InSb MWIR FPA (standard)
Resolution	720p/1080p HD and NTSC/PAL
Wavelength	3-5 µm response
FOVs	40° to 0.35°
Zoom ratio	120x
COLOR HIGH DEFINITION CAMERA [OPTIONAL]	
Sensor type	Color CCD, Progressive Scan
Resolution	720p/1080p HD and NTSC/PAL
FOVs	29° to 0.25°
Zoom ratio	120x
SWIR SHORT WAVE IR CAMERA [OPTIONAL]	
Sensor type	InGaAs
Resolution	720p/1080p HD and NTSC/PAL
FOVs	28° to 0.25°
LASER PAYLOADS [OPTIONAL]	
Designator	1.064 µm, up to 20 Hz, Class 4
Rangefinder	Up to 25 km, Class 1 (eyesafe)
Illuminator	1 W or 2 W, Class 4
Pointer	150 mW (Class 3b) or 650 mW (Class 4)
DIGITAL IMU/GPS	
Type	Tightly-coupled, fully-integrated, IMU and GPS for geo-pointing and target geo-location capability
SYSTEM PERFORMANCE	
System type	4-axis stabilization
Az. coverage	360° continuous
El. coverage	+30° to -120°
Envelope	405 KIAS, 0-30,000 ft
SYSTEM INTERFACES	
Digital video	SMPTE 292M/424M; MISB 2016.1; STANAG 4609
Analog video	NTSC/PAL
Data and control	RS-422, ARINC 429, MIL-STD-1553B, Ethernet
Metadata	MISP ST0601, 0902.1, 9716; STANAG 4609; SMPTE 291M / RP214
ENVIRONMENTAL	
Standards	MIL-STD-810G and MIL-STD-461G
Operating temperature	-40°C to 55°C
POWER REQUIREMENTS	
Voltage	22-29 VDC (per MIL-STD-704E)
Consumption	280 W (450 W max)

DIMENSIONS, WEIGHT & MOUNTING	
Single LRU	15.5" x 18.5" (380 mm x 475 mm)
TFU Weight	<105 lbs (<48 kg)
Mounting	Compatible with existing SAFIRE installations
OTHER OPTIONS & ACCESSORIES	
Navigation/Radar Interfaces, Quick-Disconnect Mounts, High Resolution Displays and Recorders, Moving Map Systems, High-Definition Downlinks Reg. US Patent 7,474,451 and 7,264,220, other patents pending	

For More Information contact saleshelp@flir.com



CORPORATE HEADQUARTERS

FLIR Systems, Inc.
27700 SW Parkway Ave.
Wilsonville, OR 97070
PH: +1 877.773.3547

THE AMERICAS

2800 Crystal Drive
Suite 330
Arlington, VA 22202
T +1.703.416.6666

EUROPE

2 Kings Hill Avenue - Kings Hill
West Malling, Kent ME19 4AQ
United Kingdom
T +44 (0)1732 220 011
F +44 (0)1732 843 707

MIDDLE EAST

FLIR Systems BV Abu Dhabi
Building C-29, Office 302
New Ministries Area near
Khalifa Park
Abu Dhabi, UAE

ASIA

FLIR Systems Japan K.K.
Meguro Tokyu Bldg. 5F, 2-13-17
Kami-Osaki, Shinagawa-ku.
Tokyo, 141-0021, Japan
T +81-3-6721-6648

www.flir.com
NASDAQ: FLIR

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